Abstract

The present invention provides an image acquisition and viewing system that employs a fish-eye lens and an imager, such as, a CCD array, to obtain a wide angle image, e.g., an image of a hemispherical field of view. The system of the invention further includes a primary display for displaying the image, and a secondary display for presenting a perspective-corrected view of a selected portion of the image. A processor effects correction of a selected portion of the image for distortions introduced by the fisheye lens by utilizing methods according to the teachings of the invention. The processor further effects the display of the image and its perspective-corrected portion thereof on the primary and the secondary displays, respectively. Moreover, the processor effects the display of a graphical object on the first display to delineate the portion that is presented on the secondary display. This allows a viewer to view simultaneously the image and the perspective-corrected portion, thereby gleaning information regarding the context of the perspective-corrected portion within the entire image while viewing it.

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